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JANUARY, 1915

Number 31

ALABAMA GIRLS TECHNICAL INSTITUTE BULLETIN

OUTLINE OF DOMESTIC ART WORK FOR THE HIGH SCHOOL

UNIVERSITY OF ILLINOIS

AUG 23 1915

PRESIDENT'S OFFICE

Published Quarterly by

Alabama Girls Technical Institute
Montevallo, Alabama

Entered as Second-Class Mail Matter

VOL. VIII. No. 3

SERIES No. 31

Outline of Domestic Art Work
for the High School
WITH
Bibliography

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ALABAMA
GIRLS TECHNICAL
INSTITUTE

MONTEVALLO, ALABAMA
JANUARY, 1915

INTRODUCTION

NOTWITHSTANDING the fact that Domestic Art is a comparatively new subject in our schools, there are certain fairly well defined sub-divisions of the whole field, each of which has a body of subject-matter more or less definitely organized. It is the purpose of this bulletin to aid in furthering this organization.

The outlines given are in no sense intended as courses of study. They are simply classified topics of fundamental work from which courses can be made. The aim has been to organize the subject-matter under the different sub-divisions and to give some controlling ideas which will aid in adapting the work to conditions and needs of various schools.

It is necessary at present to give some work in the high schools, which properly belongs in the grades, owing to the fact that very little work in Domestic Art is being done as yet, in the elementary schools.

Some points to be kept in mind in planning a course of study:

1. Environment and needs of the student.
2. Stage of development and dominant interests.
3. Previous work.
4. The value of the subject-matter selected,—it must be worthwhile in itself.
5. Real processes with real things must be performed.
6. The educational value of the work.
 - a. Every problem must be educative,—it must never be mere doing; it must give opportunity for gaining knowledge and power.
 - b. The work must be of such a character as to develop creative ability and the æsthetic nature.
 - c. It must be connected constantly with activities in the home and in the community.

ILLUSTRATIVE MATERIAL AND EQUIPMENT

Illustrative material and laboratory equipment are necessary in many phases of the work, therefore a list of such material, and where it can be obtained is given in this bulletin.

The bibliography at the end has been compiled to aid teachers in selecting books for Domestic Art and Domestic Science work.

Outline of Domestic Art for the High School

Clothing

I. TEXTILES:

The textile industries,—important activities in the present civilization.

Social problems connected with them.

Manufacture and properties of textile fabrics.

Selection and suitable use for clothing, and in the home.

1. Cotton:

a. Leading varieties.

b. Varieties raised most successfully in Alabama.

c. Properties and value.

Study fibre with microscope.

d. Manufacture:

(1) Yard, thread, cloth.

(2) Spinning.

(3) Weaving.

(4) Knitting

(5) Dyeing.

(6) Finishing.

e. Excursions:

To the Gin.

To the Cotton Mills.

f. Trace cotton from field to finished product:

Using pictures or stereopticon.

Using cotton in the different stages of manufacture.

g. Industrial Revolution.

(1) Causes:

Inventions

Use of Steam.

(2) Results:

Social and Economic changes.

Factory System.

h. Mercerized Cotton:

i. Simple tests for fastness of color, shrinkage, strength, adulteration.

4. Silk:

The strongest and most beautiful of all the fibres.

- a. Varieties of silk worm. Where raised.
- b. Manufacture of silk yarn and cloth.
- c. Manufacture of silk thread.

Procure some silk worm eggs. When they hatch, feed the young worms on the leaves of the white mulberry tree. Observe and note the changes, in this way obtain the life history of the silk worm. Reel a small skein of silk from the cocoons. United States Farmers' Bulletin Number 165 tells how to care for the silk worms and how to prepare the cocoons for reeling.

- d. Trace silk from cocoon to finished product:
 - (1) Using pictures and stereopticon.
 - (2) Using silk in different stages of manufacture.
- e. Silk fabrics:
 - (1) Adulterations.
 - (2) Simple tests.
- f. Silk Industry:
 - (1) In United States.
 - (2) In other Countries.

5. Minor Textile Fibres and Substitutes:

- a. Hemp.
- b. Jute.
- c. Ramie or China Grass.
- d. Mohair.
- e. Alpaca.
- f. Camel's hair.
- g. Shoddy.
- h. Flocks.

(1) Properties and use of each.

6. Comparison of the Four Leading Textile Fabrics:

- a. Appearance
 - (1) To the naked eye.
 - (2) Under the microscope.
- b. Chemical differences.
- c. Value.
- d. Tests of fabrics for identification of fibres.

7. Design in Textiles:

- a. Woven designs.

- b.* Printed designs.
 - (1) Stenciling.
 - (2) Wood block printing.
 - (3) Modern method.
 - (4) Warp Printing.
- 8. Social problems connected with the Textile Industries.
 - a.* Factory life.
 - (1) Child labor.
 - (2) Sanitary conditions.
 - b.* Sweat-shop system.
- 9. Agencies for the betterment of working conditions:
 - a.* Consumers' League.
 - b.* Child Labor Association.
 - c.* Welfare workers.

II. SEWING:

- 1. Equipment for hand and machine sewing.
- 2. Use of tools.
- 3. Hand sewing.
 - a.* Primary stitches.
 - b.* Ornamental stitches.
- 4. Machine Sewing:
 - a.* Machine.
 - (1) Construction.
 - (2) Proper management and care.
 - (3) Use of attachments.

High school students should be able to select suitable material for and make the following:

 - a.* Articles for the home, such as holders, aprons, towels, napkins, bed linen, etc.
 - b.* Undergarments.
 - c.* Gymnasium suit.
 - d.* Middy blouse and skirt of cotton material.
 - e.* One-piece dress.
 - f.* Simple lingerie waist.
 - g.* Tailored waist.
 - h.* Wool dress
 - i.* Simple party gown.

III. GARMENT AND DRESSMAKING:

1. Under and outer garments.
 - a. Purpose.
 - b. Hygiene of clothing.
 - (1) Material in relation to health.
 - (2) Dress in relation to health.
2. Material:
 - a. Cotton, wool, linen, silk.
 - b. Points to consider in selecting.
 - (1) Purpose of article or garment.
 - (2) Properties in relation to use.
 - (3) Width, amount, cost.
 - (4) Durability—weave, finish.
 - (5) Attractiveness—design, color.
 - (6) Genuineness.
 - c. Trimmings:
 - (1) Kinds.
 - (2) Purpose of ornament.
 - (3) Suitability.
 - (4) Simplicity.
3. Construction:
 - a. Drafting and adapting patterns.
 - b. Cutting. Economy of material.
 - c. Fitting. Lines in relation to form.
 - d. Making.
 - (1) Characteristics of good workmanship.
 - (2) Time value of a well made article.
 - (3) Money value
 - Of material.
 - Of making—compute, using average wage of seamstress or dressmaker.
4. Economics of Clothing.
 - a. Money in relation to dress.
 - b. Keeping accounts.
 - c. Cost of winter wardrobe.
 - d. Cost of summer wardrobe.
 - e. Comparative cost and desirability of ready made and home made clothing.
 - f. Relation of cost of clothing to income.

- g. Standards in the use of money.
- 5. Care and repair of clothing.
 - a. Daily care.
 - b. Cleaning and pressing.
 - c. Darning and mending.
 - d. Remodeling and renovating.
- 6. Standards in dress.
 - a. Suitability for the person; for the occasion.
 - b. Simplicity.
 - c. Healthfulness.
 - d. Cleanliness.
 - e. Principles of art and design applied to dress.

IV. COSTUME DESIGN:

This work should be given as a part of the dressmaking course, or as a parallel course.

- 1. Importance of artistic dress.
- 2. Proportions of the human form.
- 3. Quick sketching from the figure.
- 4. Pose drawing.
- 5. Study of illustrations in fashion books.
- 6. Sketching dress on form:
 - a. Front view.
 - b. Three-quarter view.
 - c. Back view.
- 7. Color and line in relation to the individual.
 - a. Make a scale of seven colors from black to white, using water colors.
 - b. Make related color schemes.
 - c. Make complementary color schemes.
 - d. Make color schemes for dresses and costumes, using samples of materials.
- 8. Study of special figures.
 - a. Design a costume for a stout form.
 - b. For a slender form.
- 9. Make an all-over design for a textile fabric.
- 10. Design dresses and hats suitable for different occasions and individuals,—school dresses, party gowns, street costumes.
 - a. In dark and light.

b. In color.

As often as possible the hats and dresses in the millinery and dressmaking classes should be designed in the costume design class.

V. MILLINERY:

1. Materials.
2. Use of buckram.
3. Making buckram frame.
4. Use of wire.
5. Making wire frame.
6. Altering bought wire frames.
7. Covering frames.
8. Trimming. Lines must harmonize with lines of hat.
9. Shape and trimming in relation to the individual.
 - a. To the entire figure.
 - b. To the face.
10. Renovating material.
11. Remodeling hats.

The Home

I. HISTORICAL DEVELOPMENT:

1. Primitive.
2. Ancient.
3. Modern.

II. HOUSE PLANNING AND BUILDING:

1. Architectural Style:
 - a. Greek.
 - b. Gothic.
 - c. Colonial.
New England, Dutch, Southern.
 - d. Mission, Spanish.
 - e. Present outlook in American Architecture.
2. Points to consider in selecting a site.
 - a. Soil and drainage.
 - b. Outlook.
 - c. Social and educational advantages of location.
 - d. Possibilities.
3. Material for building.
 - a. Influence of climate.
 - b. Influence of environment.
4. Size and cost of house. Estimate cost.
5. Study of house plans.
6. Study of houses,—typical styles.
 - a. Exterior.
 - (1) Harmony with landscape in color and architectural style.
 - (2) Arrangement of windows and doors, etc.
 - (3) Decorative feature.
 - (4) Beauty.
 - b. Interior.
 - (1) Division of floor area.
 - (2) Long leading lines.
 - (3) Proportion.
 - (4) Feeling of spaciousness and hospitality.

- (5) Color schemes.
- 7. Making House Plans:
 - a. Country house, city house, bungalow, cottage.
 - b. Floor area
 - (1) Division:
 - Working, resting, living areas, and passage ways.
 - (2) Size and arrangement of rooms.
 - c. Requirements of different rooms.

III. FURNITURE AND FURNISHINGS:

- 1. Floor and wall coverings.
 - a. Color schemes,—using water colors, using materials.
 - (1) Cold colors.
 - (2) Warm colors.
 - (3) Color harmony.
 - b. Rugs.
 - c. Draperies and curtains.
 - d. Wall paper, paint, etc.
- 2. Arrangement:
 - a. From standpoint of efficiency.
 - b. From standpoint of beauty.
- 3. Points to consider in selecting:
 - a. Suited to fulfil purpose.
 - b. Care,—ease of keeping clean.
 - c. Genuineness.
 - d. Artistic value:
 - (1) Good in line and form.
 - (2) Harmony with other articles.
 - (3) Simplicity.
- 4. Special needs of different rooms.
 - a. Kitchen:
 - (1) Well lighted and ventilated, having cross-drafts.
 - (2) Light color scheme.
 - (3) Floor and wall covering impervious to grease and moisture.
 - (4) Furniture and utensils grouped according to processes to be performed.
 - (5) Convenient shelves and closets, a good location for ice box.

- b. Dining room.
 - (1) Sunny.
 - (2) Warm and cheerful color scheme.
 - (3) Roomy.
 - (5) Simple unobtrusive decorations.
- c. Bed room.
 - (1) Good ventilation.
 - (2) Immaculate cleanliness.
 - (3) Daintiness and freshness.
 - (4) Simplicity.
 - (5) Restfulness.
- d. Living room.
 - (1) Fireplace.
 - (2) Attractive, usable furniture and furnishings.
 - (3) Comfort.
 - (4) Hominess.

IV. THE HOUSE IN RELATION TO HEALTH:

- (1) Heating.
- (2) Lighting.
- (3) Ventilation.
- (4) Sleeping porches.
- (5) Simplicity of furnishings.
- (6) Care
 - a. Kinds, sources and dangers of dirt.
 - b. Ways of preventing accumulation of dirt.
 - c. Ways of removing.
 - d. Materials for cleaning.
 - e. Method of procedure in cleaning.

V. HOME CRAFT WORK:

All problems in home craft work should be treated so as to develop an appreciation of that which is good in color and design. If a separate course in this work cannot be arranged, some of the work may well be given in connection with the study of furnishing of the different rooms of the home.

- 1. Paper construction.
 - a. All-over pasting, simple designs.
 - b. Problems:

- (1) Waster paper basket.
- (2) Telephone pad.
- (3) Pad for kitchen memoranda.

2. Book Binding:

- a. Pamphlet binding.
 - (1) Note book.
 - (2) Aid to memory book.
- b. Japanese binding.
 - (1) Post card holder.
 - (2) Photo case.
- c. Sewing and binding.

3. Basketry:

- a. Material.
 - (1) Reed.
 - (2) Raffia.
 - (3) Pine Needles.
- b. Form, color, simple design.
- c. Coil basket.
- d. Woven basket.

4. Needlework. Woodblock and stenciling.

- a. Suitable materials.
- b. Original designs.
- c. Color schemes:

Practical work

 - (1) Pin cushion—simple design in cross stitch.
 - (2) Dresser scarf—woodblock design.
 - (3) Center piece design in stenciling or embroidery.
 - (4) Silver case.
 - (5) Table runner—design in woodblock or embroidery.
 - (6) Pillow top—design in applique.

5. Weaving.

- a. Simple loom.
 - (1) Weave belt or hat band, with a simple design in color.
- b. Hand loom.
 - (1) Rug, design in color.

6. The Arts and Crafts Movement:
Revival of Crafts
 - a. In England.
 - (1) William Morris.
 - (2) Ruskin.
 - (3) Village industries.
 - b. In United States.
 - (1) Village industries, Deerfield, Mass.
 - (2) Weaving:
Berea College, Kentucky.
Hull House.
Hertler Looms, New York.
 - (3) The Roycrofters.
 - (4) The Stickley United Crafts.
 - (5) The Rookwood Pottery.

VI. HOME MANAGEMENT:

1. Organization of activities.
 - a. Various kinds of work.
 - b. Division of labor.
 - c. Planning work to save time and energy.
 - d. Labor-saving devices.
2. Importance and use of leisure time.
3. Division of Income.
 - a. Budget.
 - b. Standards and ideals in the use of money.
 - c. Accounts.
 - (1) Reason for keeping.
 - (2) Methods of keeping.
4. Buying supplies.
 - a. Quantity vs. small amount.
 - b. Banking.
5. The Home Atmosphere and Life.
 - a. Importance to the members of the family.
 - b. To the community.

Bibliography and Notes—Domestic Art

TEXTILES AND CLOTHING

SHELTER AND CLOTHING. Kinne and Cooley. 1913. 377 pp. The Macmillan Co., New York. \$1.10.

An excellent text book in the Household Arts. Part I treats of the Home; Part II of Textiles and Clothing. The following subjects are included in Part II: Textile materials and how they are made, sewing and garment making, costume design, dressmaking, and millinery.

TEXTILES. Mary Schenck Woolman and Ellen Beers McGowan. 428 pp. \$2.00.

A book for advanced work in the high school and for reference work.

METHODS OF TEXTILE CHEMISTRY. Frederick Dannerth. 1908. 146 pp. Wiley, New York. \$2.00.

Valuable as a laboratory guide for teachers.

HOME LIFE IN COLONIAL DAYS. Alice Morse Earle. 1898. 470 pp. Macmillan Company. \$2.50.

This book gives the home occupations of colonial days, and describes the furniture, utensils and homes. Illustrated.

TAPESTRIES: THEIR ORIGIN, HISTORY AND RENAISSANCE. Hunter. 1912. 438 pp. Four illustrations in colors and 147 half-tone engravings. John Lane. \$4.00.

A charming book on tapestries of different periods. Beautiful illustrations.

HOUSEHOLD TEXTILES. Charlotte M. Gibbs. 1912. 233 pp. Whitcomb and Barrows. \$1.25.

Contents: Early development of the textile arts, spinning and weaving, classification of fibres, cotton, wool, silk and linen, bleaching and dyeing, adulterations and buying, hygiene of clothing materials, design and color in textile fabrics, labor conditions and efforts to improve them, the arts and crafts movement, laboratory tests for textile fibres.

TEXTILES. W. H. Dooley. 1910. 245 pp. Heath. \$1.00.

An elementary book including a study of the textile fibres and fabrics. Good illustrations.

- TEXTILE FIBRES.** J. M. Matthews. 1907. 438 pp. \$4.00. John Wiley & Sons, New York.
Treats of the Physical, microscopical and chemical properties of the textile fibres. A book for teachers and for reference work.
- COTTON.** Burdett and Poe. 1906. 331 pp. Doubleday, Page & Co., New York.
Valuable reference book.
- THE STORY OF THE COTTON PLANT.** 1906. 187 pp. Appleton. \$0.35.
A concise and interesting story of the cotton industry. It is not too technical for students and is valuable for reference work.
- THE COTTON INDUSTRY.** Matthews Brown Hammond. 1898. 147 pp. Macmillan Company. \$0.60.
A valuable reference work on the cotton industry in the United States. It is written in two parts. The Cotton Culture, and The Cotton Trade.
- AMERICAN COTTON INDUSTRY.** T. M. Young. 1902. Scribner. 75c.
A study of work and workers. A detailed report by an English specialist.
- COLE'S ENCYCLOPEDIA OF DRY GOODS.** G. S. Cole. Rev. Ed. 1900. Caspar. \$3.00.
A valuable reference book in the study of materials and processes of manufacture.
- STUDENT'S COTTON SPINNING.** Joseph Nasmith. 1892. 484 pp. Van Nostrand. \$3.00.
An excellent book for reference on the modern textile industries.
- THE INDUSTRIAL EVOLUTION OF THE UNITED STATES.** Carroll D. Wright. 1907. 362 pp. Scribner. \$1.25.
Contents: The evolution of industry, colonial period; the evolution of industry, 1790-1890; the labor movement, the influence of machinery on labor.
- A COTTON FABRIC GLOSSARY.** 1907. 343 pp. Published by Frank P. Bennett, 757 Broadway, New York. \$3.00.
This book gives the manufacturer's distinctions between the various cotton materials.
- A SEWING COURSE.** Mary Schenck Woolman. 1908. 133 pp. Frederick A Fernald, 217 West Utica St., Buffalo, N. Y. \$1.50.
A book primarily for teachers. Clear description of stitches and processes with suggestions as to their suitable use.

SCHOOL NEEDLEWORK. Olive C. Hapgood. Teachers' Edition. 244 pp. Ginn. \$0.75.

Clear, concise and full of suggestions in matters of plain sewing.

ART IN NEEDLEWORK. L. F. Day and Mary Buckle. 1900. Scribner. \$2.50.

Practical handbook on embroidery. Good descriptions and illustrations.

LACE: ITS ORIGIN AND HISTORY. Goldenberg. 1904. Brentano, New York. \$1.50.

Various kinds of lace are described. Illustrated.

THE HOME.

HOW THE WORLD IS CLOTHED. Carpenter. 335 pp. \$0.60. American Book Co.

Treats of the manufacture of different articles of clothing in an interesting way.

THE HOUSE. Isabel Bevier. 1911. 216 pp. The American School of Home Economics, Chicago. \$1.50.

A valuable text book for students of the house,—its plans, decoration and care.

FURNISHING A MODEST HOME. F. H. Daniels. 1908. 114 pp. Davis Press, Worcester, Mass. \$1.00.

An excellent book containing much valuable material, well illustrated.

SUCCESSFUL HOUSES AND HOW TO BUILD THEM. C. E. White, Jr. 1912. 520 pp. Macmillan Co. \$2.00.

A valuable, reliable book.

THE COUNTRY HOME. C. E. Hooper. 1911. 330 pp. Doubleday Page & Co. \$3.00.

Discusses site, plans, buildings, detail of finish and equipment, outbuildings and the ornamentation of grounds. Over 300 plates, plans and text illustrations. Deals mainly with houses for those who need not consider economy.

KEITH'S BOOK OF PLANS. 1912. 207 pp. M. S. Keith, Minneapolis. \$1.10.

Bungalows and cottages, costing to build \$400 to \$4,000. 215 designs. Valuable in the study of house planning.

DISTINCTIVE HOMES OF MODERATE COST. Edited by Henry H. Saylor. 1910. 175 pp. McBride, Winston. \$2.50.

Articles by different writers on planning, building and furnishing country and suburban homes.

CRAFTSMAN HOUSES. Gustav Stickley. 1909. 205 pp. Craftsman, New York. \$2.00.

Practical articles from *The Craftsman* describing and illustrating houses of different types. Both artistic and practical.

PRINCIPLES OF HOME DECORATION. Candace Wheeler. 1903. 227 pp. Doubleday Page & Co. \$1.80.

Deals with theory and specific applications. Good chapter on color. Discusses furniture and furnishings of different rooms.

THE HEALTHFUL FARMHOUSE Helen Dodd. 1906. 69 pp. Whitcomb and Barrows. \$0.60.

Contents: The kitchen, shed, cellar, ventilation, dining room, living room, halls.

HOME FURNISHINGS, PRACTICAL AND ARTISTIC. Alice Maude Kellogg. 1905. 265 pp. Stokes. \$1.50.

Considers appropriate furnishings and decorations for each room. Urges harmony, simplicity and refinement. Illustrated.

ART AND ECONOMY IN HOME DECORATION. Mabel Priestman. 1908. 222 pp. John Lane. \$1.35.

Deals with furniture and furnishings. The following chapters are especially suggestive: Choosing a color scheme, characteristics of Oriental rugs, home-made rugs, the right use of ornament on furniture, portieres and curtains, needlework in the hands of a craftsman.

THE HOME DIGNIFIED. Lillie Hamilton French. 1908. Putnam. \$5.00.

A valuable reference book, well illustrated. Treats each room in the house separately.

COLOR PROBLEMS. E. N. Vanderpool. 1903. 137 pp. 117 colored plates. Longmans, Green & Co. \$5.00.

A practical treatment of the subject of color. A valuable book for use in connection with color in decoration and clothing.

DECORATIVE STYLES AND PERIODS. Helen Churchill Candee. 1906. Stokes. \$2.15.

Valuable reference book in the study of furniture and furnishings. Special attention is given to the important styles of different periods. Well illustrated.

HOPES AND FEARS FOR ART. William Morris. 1904. Longmans. \$1.50.

For reference work.

ARTS AND CRAFTS ESSAYS. 1899. Longman. \$1.00.

Essays on various crafts by members of Arts and Crafts Exhibit Society, London. With a preface by William Morris.

- HANDICRAFTS IN THE HOME. Mabel Tuke Priestman. 1910. 228 pp. McClurg. \$2.00.**
Some of the subjects considered are: Stencil craft, block printing, leather work, rugs, raffia, needlework and applique.
- HANDLOOM WEAVING. Luther Hooper. 1910. 339 pp. Macmillan. \$2.25.**
Descriptions of various looms and methods of working them, with suggestions for fabrics and designs. Well illustrated.
- HANDLOOM WEAVING. Todd. 1902. Rand, McNally. \$0.90.**
An illustrated manual, describing tools, utensils, processes, and the weaving of various articles.
- HOW TO MAKE RUGS. Wheeler. 1902. Doubleday. \$1.00.**
Plea for the revival of domestic rug making especially in rural villages; gives details as to color and weaving.
- THE CRAFT OF HAND-MADE RUGS. Amy Mali Hicks. 1914. McBride, Nast & Co.**
Descriptions and illustrations of old time rugs, braided, knotted, crocheted, hooked and hand woven.
- DYES AND DYEING. Pellew. 1913. McBride, Nast & Co., New York. \$2.00.**
"A practical handbook for the home craftsman covering the subject of dyeing in all its applications."
- HOW TO MAKE BASKETS. Mary White. 1901. 194 pp. Doubleday Page. \$1.00.**
Well illustrated with clear descriptions of processes.
- BOOKBINDING FOR AMATEURS. W. J. E. Crane. 1885. Scribner. \$1.00.**
"Descriptions of various tools and appliances required, and minute instructions for their effective use, illustrated with 156 engravings."
- THE NEW HOUSEKEEPING. Christine Frederick. 1913. 266 pp. Doubleday Page.**
This book treats home management from the standpoint of efficiency, "standard practice," and "motion study" are applied to household tasks. Education for home-making is emphasized. Valuable in the study of the home.
- THE EFFICIENT KITCHEN. Georgia Boynton Child. 1914. McBride, Nast & Co., New York.**
Practical and valuable in the study of the kitchen.

HOUSEHOLD MANAGEMENT. Bertha M. Terrill. 1907. 211 pp.
American School of Home Economics. \$1.50. Textbook
edition, \$1.25.

Practical discussion of housekeeping as a profession and
of business principles applied to home management.
Treats of accounts, banking, and buying supplies.

HOW TO KEEP HOUSEHOLD ACCOUNTS. Haskins. 1903. Harper.
\$1.00.

A valuable little book. It tells how to keep household
accounts and shows the importance of doing so; explains
how to start and keep a bank account.

HOUSEHOLD ECONOMICS. Helen Campbell. 1907. 290 pp. Put-
nam. \$1.50.

A valuable book for advanced students.

General—For Teachers

DOMESTIC ART IN WOMAN'S EDUCATION. 1911. 274 pp. Scribners. \$1.25.

A most valuable book for teachers of Domestic Art, and for the normal school students. It gives courses of study and outlines of lessons for elementary and secondary schools, with cost of equipment and maintenance, also the educational value of domestic art.

COUNTRY LIFE AND THE COUNTRY SCHOOL. Carney. 1912. 405 pp. R. W. Peterson, Chicago. \$1.25.

An excellent chapter on the farm home.

THE HOME ECONOMICS MOVEMENT. Bevier and Usher. 1906. 67 pp. Whitcomb and Barrows. \$0.75.

The history of the home economics movement in the United States.

LIFE OF ELLEN H. RICHARDS. C. L. Hunt. 1912. 329 pp. Whitcomb and Barrows. \$1.50.

A book with which every domestic art teacher should be familiar.

THE EDUCATIONAL MEANING OF MANUAL ARTS AND INDUSTRIES. Robert Keable Row. 1909. 248 pp. Row Peterson, Chicago. \$1.25.

An excellent treatment of the manual arts and industries as a part of the educative process, with suggestions for courses of study.

THE EFFICIENT LIFE. Luther H. Gulick. 1911. 195 pp. Doubleday, Page. \$1.20.

A valuable book on the all around efficient life.

SYLLABUS OF HOME ECONOMICS. 1913. 69 pp. American Home Economics Association, Baltimore, Md. \$0.50.

Helpful in planning courses.

POWER THROUGH REPOSE. Annie Payson Call. 1906. 201 pp. Little Brown. \$1.00.

A very helpful book.

THE ART OF RIGHT LIVING. Ellen H. Richards. 1904. 50 pp. Whitcomb and Barrows. \$0.50.

A helpful little book on the Fourth "R," the Art of Right Living.

THE EDUCATION OF WOMEN. Marion Talbot. 1910. 246 pp. The University of Chicago Press. \$1.25.

A MODERN SCHOOL. Paul H. Hanus. 1904. 306 pp. Macmillan. \$1.25.

A book of high ideals as to the aim and work of the modern school.

GIRLS AND EDUCATION. L. B. R. Briggs. 1911. 162 pp. Houghton, Mifflin. \$1.00.

Contents: To the girl who would cultivate herself, to school girls at graduation, to college girls, college teachers and college taught.

DEMOCRACY AND SOCIAL ETHICS. Jane Addams. 1902. Macmillan. \$1.25.

A book which treats of the educational needs of a democracy which is industrial.

BULLETINS AND PAMPHLETS.

United States Department of Agriculture, Washington, D. C.

Farmers' Bulletins:

No. 274. Flax Culture.

No. 165. Silkworm Culture.

No. 126. Practical Suggestions for Farm Buildings.

No. 270. Modern Conveniences for the Farm Home.

No. 342. Experiment Station Work XLIX. The Model Kitchen.

No. 185. Beautifying the Home Grounds.

Teachers College, Columbia University, New York City

Technical Education Bulletins.

No. 1. Economic Function of Woman. Devine. 16 pp. \$0.10.

No. 2. Annotated List of Books Relating to Household Arts. 42 pp. \$0.15.

No. 4. Hints on Clothing. Woolman. 8 pp. \$0.10.

No. 21. Elementary Clothing and Handwork. \$0.10.

No. 7. Chemical and Microscopic Methods of Distinguishing Linen and Cotton. Hertzog of Prussian Textile School. Translated by Ellen Beers. 25 half-tone illustrations and 2 color prints. \$0.25.

Booklet

Hand-made Flowers. Evelyn S. Tobey. \$0.50.

Winthrop Normal and Industrial College, Rock Hill, S. C.

Bulletin

No. 2. Sewing. For price address Domestic Art Department.

Alabama Girls Technical Institute, Montevallo, Ala.

Bulletin

Domestic Art One of the New Subjects in Our Schools.

The Cornell Reading Courses, Ithaca, New York

For prices address Miss Martha Van Rensselaer.

Vol. I, No. 9. Reading in the Farm Home.

Vol. II, No. 39. The Farmhouse.

Vol. I. No. 7. Household Furnishings.

Vol. II. No. 25. Saving Strength.

Vol. II. N. 45. Hints on Choosing Textiles.

University of Illinois

For prices address Fred H. Rankin, Urbana, Ill.

Vol. VIII, No. 5. Syllabus of Domestic Science and Domestic Art
for the High Schools of Illinois.

Vol. X, No. 13. Some Points in Choosing Textiles.

The Housekeeping Experiment Station, 28 Hoyt St., Stamford, Conn.

Bulletins:

No. 2. Comfort in the Kitchen. \$.10.

No. 3. Time and Money Savers. \$.10.

No. 4. The New Housekeeping. \$.10.

No. 7. The Country Kitchen. \$.10.

No. 10. The Kitchenette. \$.10.

No. 14. Kitchen Outfit. \$.25.

National Child Labor Committee, 105 East 22d St., New York City.

Pamphlets:

No. 181. Child Welfare in the Tenements. \$.10.

No. 145. Why Help the National Child Labor Committee?
What the United States Government says about Child
Labor.

Child Labor in all the States.

Department of Education, Montgomery, Alabama.

Annual Report of the Factory Inspector.

National Consumers League, 105 East 22d St. New York City.

Pamphlet:

Home Work in the Tenements. Watson.

MAGAZINES

Southern Textile Bulletin. \$1.00 per year. Charlotte, N. C.

The Manual Training Magazine. \$1.50 per year. Manual Arts
Press, Peoria, Ill.

The Delineator. \$1.00 per year. Butterick Publishing Co., New
York.

The School Arts Book. \$1.50 per year. Davis Press, Worcester,
Mass.

The House Beautiful. \$2.00 per year. 432 Fourth Ave., New York.

The Craftsman. \$3.00 per year. 41 West 34th St., New York.

ILLUSTRATIVE MATERIAL.**Exhibits:**

Cotton in the different stages of the process of manufacture.

H. H. Blunt, Wonalancet Co., Nashua, New Hampshire. Cost \$1.00.
Spool Cotton Exhibit. All steps from raw cotton to finished thread.

Large case, glass top. Also a well illustrated pamphlet on The Evolution of Cotton Thread. Free for educational purposes.

Clark's O. N. T. Manufacturing Co., Newark, New Jersey.

Flax from the plant to the thread.

James Livingston Flax Co., Yale, Michigan. Cost \$1.00.

Flax from the raw to the finished product.

James McCutcheon, Fifth Ave. and 34th St., New York City.

Flax from the plant to the thread. In a glass covered case.

Barbour Linen Thread Co., 96-98 Franklin St., New York City.

Specimens of flax, ramie, hemp and jute.

United States Dept. of Agriculture, Bureau of Plant Industry.

Varieties of wool and steps in the manufacture of carpets.

M. J. Whittall, Worcester, Mass.

Large wool exhibit showing wool in the different stages of manufacture.

Arlington Mills, Lawrence, Mass.

Wire brushes similar to hand cards.

St. Mary's Woolen Manufacturing Co., St. Marys, Ohio.

Samples of wool material for underwear

Jaros Hygienic Underwear Co., 831 Broadway, New York.

Set of mounted cards, showing raw product and woven materials.

Excellent. Also a chart and pamphlet entitled, "A Short Description of Silk and Silk Manufacture."

Cheney Brothers, South Manchester, Conn.

Silk Culture Cabinet, glass top. Pamphlet on silk, its origin, culture and manufacture. Illustrations, good. \$0.25.

Corticelli Silk Co., Florence, Mass., cabinet, \$2.50 and express.

Box containing 2 cocoons, \$0.05.

Glass covered case showing silk worm in different stages of development; also raw silk, yarn and thread.

Belding Bros. & Co., Northampton, Mass.

Pictures, Lantern Slides, etc.

Photographs of furniture of different periods.

Metropolitan Museum, New York City. \$0.20 unmounted.

An illustrated bulletin, The Wing of Decorative Art, supplement to the bulletin of the Metropolitan Museum of Art. March, 1910. \$0.10.

Metropolitan Museum, New York City.

Craftsman Furniture for the Home. An illustrated pamphlet. Free.

The Craftsman Workshops, Eastwood, New York.

The Proper Treatment of Floors, Woodwork and Furniture. Free.

S. C. Johnson & Sons., Racine, Wis.

Art Panels from the Handlooms of the Far Orient. Descriptions and pictures. Free.

Pushman Brothers, Chicago, Ill.

Oriental Art in American Rugs. Free.

M. J. Whittall, Worcester, Mass.

Lantern slides, wool, cotton, silk and flax, \$0.40-apiece. (Send for catalog.)

T. H. McAllister, 49 Nassau St., New York City.

SUPPLIES AND EQUIPMENT.

It is advisable to send for the latest catalog before ordering.

Looms and Weaving Supplies:

Reed Manufacturing Co., Springfield, Mass.

Handicraft Appliance Co., Joliet, Ill.

Reed and Raffia:

Garden City Manufacturing Co., Chicago.

Amzi-Godden Seed Co., Birmingham, Ala.

American Rattan and Reed Manufacturing Co., Brooklyn, N. Y.

Weaving Supplies and Raffia:

Braggsville, Mass.

Dress Forms:

Adjustable dress form, \$5.00.

Lit Brothers, Philadelphia, Pa.

Majestic Dress Form Co., 405 Maller's Bldg., Madison Ave. and Wabash, Chicago, Ill.

Stains

Johnson's wood stains.

Birmingham Paint & Glass Co., Birmingham, Ala.

Linens and Floss for Applique:

The Craftsman Workshops, Eastwood, New York.

Scissors:

Loeb Hardware Co., care J. C. Johnson, Jr., Montgomery, Ala.

Silk Worm Eggs:

T. A. Keleher, P. O. Box 32, Washington, D. C.

Bibliography and Notes—Domestic Science

COMPILED BY LOUESA J. KEYS,
Director of Domestic Science, Alabama Girls Technical Institute

List of Books Relating to Domestic Science

(A) COOKERY.

- I. HOUSEHOLD SCIENCE AND ARTS. Josephine Morris. 1913. 256 pp. 60c. American Book Co.
A text book suitable for beginners and containing some three hundred recipes, besides general discussions of cooking, dish washing, serving, etc.
- II. A STUDY OF FOODS. Wardall and White. 1914. 174 pp. Ginn and Company.
Somewhat more advanced than the preceding book but good for higher grades or high schools. Especially good on discussions of foods and on cuts of beef.
- III. ELEMENTS OF THE THEORY AND PRACTICE OF COOKERY. Williams and Fisher. 1910. 346 pp. \$1.00. Macmillin Company.
A text book for beginners.
- IV. PRINCIPLES OF COOKERY. Anna Barrows. 1907. 200 pp. and appendix. \$1.25. American School of Home Economics, Chicago.
Although recommended for reference work, this book contains much that might be used as class-room work, and is simple enough for high school classes.
- V. SELECTION AND PREPARATION OF FOOD—LABORATORY GUIDE. Bevier and Van Meter. 1907. 86 pp. 75c. Whitcomb & Barrows.
Prepared for use in college classes. Deals with selection, preparation, economic and aesthetic values of food.
- VI. THE BOSTON COOKING SCHOOL COOK BOOK. Fannie M. Farmer. 1912. 648 pp. \$2.00. Little Brown and Company, Boston.
Valuable recipes for plain and fancy cookery. Explicit directions and discussions of different foods.

- VII. **BOSTON COOK BOOK.** Mary J. Lincoln.. 1900. 578 pp. \$2.00.
Little, Brown & Co.
Good for the making of staple dishes. Contains discussions on food composition.
- VIII. **CHEMISTRY OF COOKERY.** W. M. Williams. 1902. 158 pp.
\$1.50. Appleton & Co.
The chemistry of cooking processes explained in simple terms. Effect of cooking discussed.
- IX. **CHEMISTRY OF COOKING AND CLEANING.** Richards and Elliott. 1907. 186 pp. \$1.00. Whitcomb and Barrows.
Cooking and cleaning processes discussed from the chemical standpoint. Better for reference than text. Effect of certain substances upon materials from which cooking vessels are made. Simply explained.
- X. **COST OF FOOD.** Ellen H. Richards. 1901. 150 pp. \$1.00.
Wiley.
Though published some years ago this book still gives an insight into the planning of reasonably priced dietaries and the cost of special diets.
- XI. **FOODS AND THEIR ADULTERATION.** Ellen M. Richards. 1898. 176 pp. \$1.00. Whitcomb and Barrows.
A simple discussion of the adulterations of the most common foods. Good as a reference.
- XII. **FOODS AND HOUSEHOLD MANAGEMENT.** Kinne and Cooley. 1914. 400 pp. \$1.10. Macmillan Co.
A splendid text for classes above the grades. Attempts to cover the whole field included in Domestic Science.

(B) DIETETICS.

- I. **NUTRITION AND DIET.** Emma Conley. 1913. 208 pp. 60c.
American Book Co.
A text book for secondary schools. A plain, simple presentation of the essential principles of dietetics.
- II. **THE PRINCIPLES OF HUMAN NUTRITION.** W. H. Jordan. 1912. 450 pp. \$1.75. Macmillan Company.
An advanced text in dietetics. Subject matter is well handled but rather difficult for secondary schools.
- III. **FOOD AND DIETETICS.** Alice P. Norton. 1912. 254 pp. \$1.25.
American School of Home Economics.
A text book. Good on food principles and standard dietaries.
- IV. **FOOD AND DIETETICS.** Robert Hutchinson. 1906. 555 pp.
\$3.00. Wm. Wood & Co., New York.
A large book suitable for a library or reference work.

- V. **CHEMISTRY OF FOOD AND NUTRITION.** **H. C. Sherman.** 1911. 354 pp. \$1.50. Macmillan Company.
Presupposes a knowledge of chemistry. Good for college text or reference.
- VI. **THE NUTRITION OF MAN.** **R. H. Chittenden.** 1907. 321 pp. \$3.00. Stokes Publishing Co.
Good as a reference, giving results of experiments on low protein diets.

(C) HOUSEKEEPING

- I. **CHEMISTRY OF THE HOUSEHOLD.** **Margaret Dodd.** 1907. 169 pp. \$1.25. American School of Home Economics.
Takes up, in a practical manner, the chemistry of household processes such as cleaning woodwork, metals, etc., the laundry, combustion, fuels, lighting, etc.
- II. **CARE OF THE HOUSE.** **T. M. Clark.** 1909. 283 pp. \$1.50. Macmillan Company.
Valuable for detailed descriptions of lighting, heating and plumbing systems.
- III. **HOME ECONOMICS.** **Maria Parloa.** 1906. 416 pp. \$1.00. Century Co., New York.
One of the first books written on Household Management but still containing some valuable suggestions and rules for cleaning and care of the house.
- IV. **HOME PROBLEMS FROM A NEW STANDPOINT.** **Caroline L. Hunt.** 1908. 145 pp. \$1.00. Whitcomb and Barrows.
Good as a reference. Shows how changes in the industrial world have affected the home.
- V. **THE ART OF RIGHT LIVING.** **Ellen H. Richards.** 1904. 50 pp. 50c. Whitcomb and Barrows.
A booklet giving ideals of shelter, food, clothing, etc.
- VI. **HOUSEHOLD MANAGEMENT.** **Bertha M. Terrill.** 1912. 211 pp. \$1.25. American School of Home Economics.
Discusses housekeeping as a profession. Reference or text for advanced students.
- VII. **THE NEW HOUSEKEEPING.** **Christine Frederick.** 1913. 266 pp. \$1.00. Doubleday, Page & Co., New York.
Efficiency studies in home management.
Good for reference.

(D) SANITATION.

- I. **THE SANITATION OF A COUNTRY HOUSE.** **Harvey B. Bashore.** 1905. 103 pp. \$1.00. Wiley.
A hand book of the elementary principles of location, water supply and waste disposal in country homes.

- II. SANITATION IN DAILY LIFE. **Ellen H. Richards.** 1907. 82 pp. 60c. Whitcomb and Barrows.
Endeavors to arouse the reader's interest in the importance of sanitary homes. Reference.
 - III. HOME SANITATION. **Richards & Talbot.** 1904. 80 pp. 25c. Whitcomb and Barrows.
"A manual for housekeepers." Reference.
 - IV. HOW TO DRAIN A HOUSE. **G. E. Waring.** 1895. \$1.25. Van Nostrand.
Information concerning pipes for supply of water and for sewage disposal. Reference.
 - V. The subjects of HEATING, LIGHTING, VENTILATING AND PLUMBING OF THE HOUSE are treated in the following books
SHELTER AND CLOTHING. **Kinne & Cooley.**
HANDBOOK ON SANITATION. **Price.**
HOUSEHOLD HYGIENE. **S. Maria Elliott.**
HOME ECONOMICS. **Maria Parloa.**
HOUSEHOLD PHYSICS. **Alfred Butler.**
HOUSE SANITATION. **Marion Talbot.**
 - VI. THE HEALTHFUL FARMHOUSE. **Helen Dodd.** 1906. 69 pp. 60c. Whitcomb and Barrows.
Treats of the sanitation of every room in the house and buildings and yard about the house.
- (E) LAUNDERING.
- I. LAUNDRY MANUAL. **Balderston and Limerick.** 1900. 63 pp. 50c. Avil, Philadelphia.
Directions for doing laundry work.
 - II. LAUNDRY WORK. **J. L. Sheppard.** 1902. 103 pp. 50c. Webb Publishing Co., St. Paul, Minn.
Contains directions for breaking water, use of soaps, bluing, starches, etc. May be used as a text.
 - III. APPROVED METHODS OF HOME LAUNDERING. **Proctor & Gamble,** Cincinnati, O. Free.
An advertisement for soaps but containing valuable information.
- (F) CARE OF CHILDREN.
- I. THE CARE OF CHILDREN. **A. C. Cotton, M. D.** 1906. 199 pp. \$1.50. American School of Home Economics.
Includes chapters on the bathing, clothing, sleep, feeding and exercise of infants as well as older children. Recommended for high school students.

- II. CARE AND FEEDING OF CHILDREN. **Emmett L. Holt.** 66 pp. 75c. Appleton Co.
Suggestions for the diet and care of children from birth to the tenth year.
- III. LESSONS IN THE PROPER FEEDING OF THE FAMILY. **Winifred S. Gibbs.** 1909. Pamphlet, 42 pp. 25c. New York Association for Improving the Condition of the Poor, 105 E. 22nd Street.
Practical dietetics with special chapters on the Feeding of Children.

(G) HOME NURSING.

- I. HOME CARE OF THE SICK. **Amy E. Pope.** 1911. 190 pp. \$1.25. American School of Home Economics, Chicago.
Rather technical for a text, but good for reference.
- II. FOOD AND COOKERY FOR THE SICK AND CONVALESCENT. **Fanny M. Farmer.** 1904. — pp. \$1.50. Little Brown & Co.
A practical book. Helpful to teacher, nurse or mother in the home. Could be used as a text.
- III. FOOD FOR INVALID AND CONVALESCENT. **Winifred S. Gibbs.** 19—. 81 pp. 75c. Macmillan Company.
A manual useful for secondary schools.
- IV. HOME NURSING. **Elveen Harrison.** \$1.00 MacMillan Company.
"The clearness of directions and absence of all technical expressions, will make this work especially useful for younger students."
- V. PRACTICAL DIETETICS. **Alida Pattee.** Published by the author, Mt. Vernon, N. Y. \$1.50.
Designed for nurses, but useful as a reference for teachers.

(H) FOR GENERAL REFERENCE.

- I. HISTORY OF THE HOME ECONOMICS MOVEMENT. **Bevier and Usher.** 1906. 67 pp. 75c. Whitcomb and Barrows.
A history of the subject in United States showing its relation to political, social, and industrial conditions.
- II. EQUIPMENT FOR TEACHING DOMESTIC SCIENCE. **Helen Kinne.** 1910. 98 pp. 75c. Teachers' College, New York City.
This book deals with arrangement and furnishing of a domestic science department, the necessary utensils, cost, etc. Valuable to those fitting up a department.
- III. HOUSEHOLD BACTERIOLOGY. **S. Maria Elliott.** 1907. 170 pp. \$1.25. American School of Home Economics.
Plain, practical discussion of moulds, yeasts, and bacteria commonly encountered by the housewife.

- IV. BACTERIA, YEASTS AND MOLDS IN THE HOME. **H. W. Conn.** 1903. 293 pp. \$1.00. Ginn and Company.
A comprehensive book in the work of micro-organisms, both harmful and beneficial, in the home.
- V. MILK AND ITS PRODUCTS. **H. H. Wing.** 1903. 311 pp. \$1.50. Macmillan Company.
A splendid book on the subject.
- VI. THE HUMAN MECHANISM. **Hough and Sedgwick.** 1906. 552 pp. \$2.00. Ginn and Company.
A good text for high school or for home reading. An interesting treatment of hygiene, physiology and sanitation.
- VII. LIFE OF ELLEN H. RICHARDS. **Caroline L. Hunt.** 1912. 329 pp. \$1.50. Whitcomb and Barrows.
Because Mrs. Richards lived for others and was the leader of Home Economics work, the history of her life is full of inspiration to those who come after. The book is well written and well worth reading.
- VIII. FOODS AND THEIR ADULTERATION. **H. W. Wiley.** 1911. 641 pp. \$4.00. Blakeston, 10-12 Walnut St., Philadelphia.
Complete, detailed discussion of common food adulterants, laws regulating such, and tests for detecting.
- IX. EXPERT WAITRESS. **Anne F. Springsteed.** 1902. 131 pp. \$1.00. Harper Brothers.
A guide for teachers and useful in the home, where maids are employed.

Bulletins from the United States Department of Agriculture and from universities are an invaluable aid to Home Economics teachers. The following partial list may be had by application to one's Congressman or directly to the United States Secretary of Agriculture, Washington, D. C.

No.

- 375 Care of Food in the Home.
- 203 Canned Fruits, Preserves and Jellies.
- 391 Economical Use of Meat in the Home.
- 183 Meat on the Farm.
- 29 Souring of Milk.
- 42 Facts About Milk.
- 63 Care of Milk on the Farm.
- 74 Milk as Food.
- 232 Okra—Its Culture and Uses.
- 182 Poultry as Food.
- 142 Principles of Nutrition and Nutritive Value of Foods.
- 324 Sweet Potatoes.
- 93 Sugar as Food.
- 52 Sugar Beet
- 121 Beans, Peas and Other Legumes as Food.

- 85 Fish as Food.
- 270 Modern Conveniences for the Farm Home.
- 166 Cheese-making on the Farm.
- 128 Eggs and Their Uses as Food.

Circular No. 94 Free Publications of the Department of Agriculture
Classified for Use of Teachers.

Bulletins of the Bureau of Entomology:

- Circular 36 The True Clothes Moth.
- Circular 47 The Bed Bug.
- Circular 108 House Flies.
- Circular 71 House Flies.

Write to Superintendent of Documents, Washington, D. C., for list and prices of salable bulletins.

The Cornell Reading Course furnishes excellent bulletins free in New York. For prices and particulars write Martha van Rensselaer, Ithaca, N. Y.

Among some of the best are:

- Series I. Bacteriology of the Household.
- Series I., Vol. II., No. 43 The Box Luncheon.
- Series I., Vol. I., No. 23. Rules for Cleaning.
- Series I., Vol. I., No. 1. Care and Feeding of Children.
- Series I., Vol. I., No. 3. Care and Feeding of Children.
- Series I., Vol. II., No. 41. Rules for Planning the Dietary.
- Series II., Vols. VI and VII. Human Nutrition.
- Vol. III., No. 49. Household Insects and Methods of Control.
- New Series I., No. 3. The Laundry.

Ohio University also furnishes excellent bulletins for free distribution in Ohio. For prices write to Ohio State University, Columbus, O., Extension Department.

A partial list follows:

- Vol. VI., Supplement 2 to No. 6. Sanitation.
- Vol. VI., Supplement 2 to No. 5. Bread.
- Vol. VI., Supplement 2 to No. 2. Canning of Fruits and Vegetables.
- Vol. I., No. 3. Kitchen.
- August, 1912. Kitchen.
- Vol. I., No. 1. Meat.
- Vol. VIII., No. 5. Home Butter-making.

Illinois University publishes also for state distribution. Address Fred H. Rankin, Urbana, Ill., for prices.

In this list may be found:

- Vol. X., No. 25. Some Points in Bread-making.
- Vol. IX., No. 32. Some Points to be Considered in the Planning of a Rational Diet.
- Vol. VIII., No. 7. Principles of Jelly-making.
- Vol. XI., No. 30. The Planning of Meals.

Agricultural Experiment Station, No. 158. Cuts of Beef (excellent).

Agricultural Experiment Station Circular No. 71. Roasting of Beef.

Good House Keeping Magazine, 119 W. 40th Street, New York City, has recently published a Bulletin (No. I.) which deals with new articles for the use of housekeepers, and gives advantages and disadvantages of each. Cost of bulletin, 15 cents.

Domestic Science Equipment may be had from:

- I. E. H. SHELDON & CO., Muskegon, Mich. Tables, cabinets, etc.
- II. KEWANEE MANUFACTURING CO., Kewanee, Wis. Tables, Cabinets, desks, etc.
- III. COLUMBIA SCHOOL SUPPLY CO., Indianapolis, Ind. Tables, cabinets, cupboards, utensils, stoves.
- IV. KIRKHAM-MATTSON CO., Grand Haven, Mich. Tables, gas plates, gas machines.
- V. SPIRO HARDWARE CO., Birmingham, Ala.
- VI. Geo. M. Clark Co., 179 N. Michigan Avenue, Chicago. Stoves.
- VII. THE ALUMINUM COOKING UTENSIL CO., New Kingston, Pa. Aluminum vessels.
- VIII. WALTHER-VOGLER GAS MACHINE CO., Davenport, Iowa. Gasoline gas machines.
- IX. TEAGUE HARDWARE CO., Montgomery, Ala.
- X. KALAMAZOO VEGETABLE PARCHMENT CO., Kalamazoo, Mich. Paper goods—shelf paper, towels, pan liners, etc.
- XI. MAJESTIC MANUFACTURING CO., Dept. 156, St. Louis, Mo. Kitchen ranges.
- XII. Such firms as MONTGOMERY WARD or SEARS, ROEBUCK & CO., Chicago, handle small utensils suited to Domestic Science Departments.

SCHOOL EXHIBITS.

(Sent free, for use of schools, on application)

- I. HUYLER, Irving Place, New York. Cocoa exhibit.
- II. WALTER BAKER, Dorchester, Mass. Chocolate.
- III. ROYAL BAKING POWDER, Brooklyn, N. Y.
- IV. CLEVELAND BAKING POWDER CO., New York City.
- V. POSTUM CEREAL CO., Battle Creek, Mich. Charts, with bottles of food in stages of manufacture.

- VI. DIAMOND CRYSTAL SALT CO., St. Clair, Mich. Chart, with samples of salt.
- VII. BURNETT'S VANILLA CO., Boston, Mass.
- VIII. CORN PRODUCTS CO., 17 Battery Place, New York City. Corn Products.
- IX. McCORMICK & CO., 105 Concord Street, Baltimore, Md. Sample case of spices.
- X. KNY SHEERER CO., 410 W. Twenty-seventh Street, New York City. Charts of cow, sheep, etc.
- XI. WASHBURN CROSBY CO., Minneapolis, Minn. Charts of milling process. Samples of stages of manufacture.
- XII. RICE ASSOCIATION OF AMERICA, Crowley, La. Rice exhibit.
- XIII. A. W. MUMFORD, Chicago, Ill. Cards illustrating tea, coffee, vanilla, nutmeg, etc.

CHARTS

- I. LANGWORTHY CHARTS. 12. Price \$1.00. Printed in colors showing composition of foods. U. S. Dept. Agriculture, Washington, D. C.
- II. TEACHER'S COLLEGE—Meat Charts—Columbia University, New York City. Whole Animal, showing cuts, \$1.00; Hind Quarter, showing cuts, \$1.00.

MAGAZINES

- I. GOOD HOUSE KEEPING, 119 West Fortieth Street, New York. \$1.50 per year. Monthly.
- II. JOURNAL OF HOME ECONOMICS, Roland Park Branch, Baltimore, Md. \$2.00 a year. Monthly.





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